



BOOK ME (Web Application)

Database Project

Team Members

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Amr Mohamed Fathy (44)

Muhammed Essam Khamis (64)

Overview

Book Me offers you over one million titles across categories such as Science's Books, History & Art, Geography and Religion.

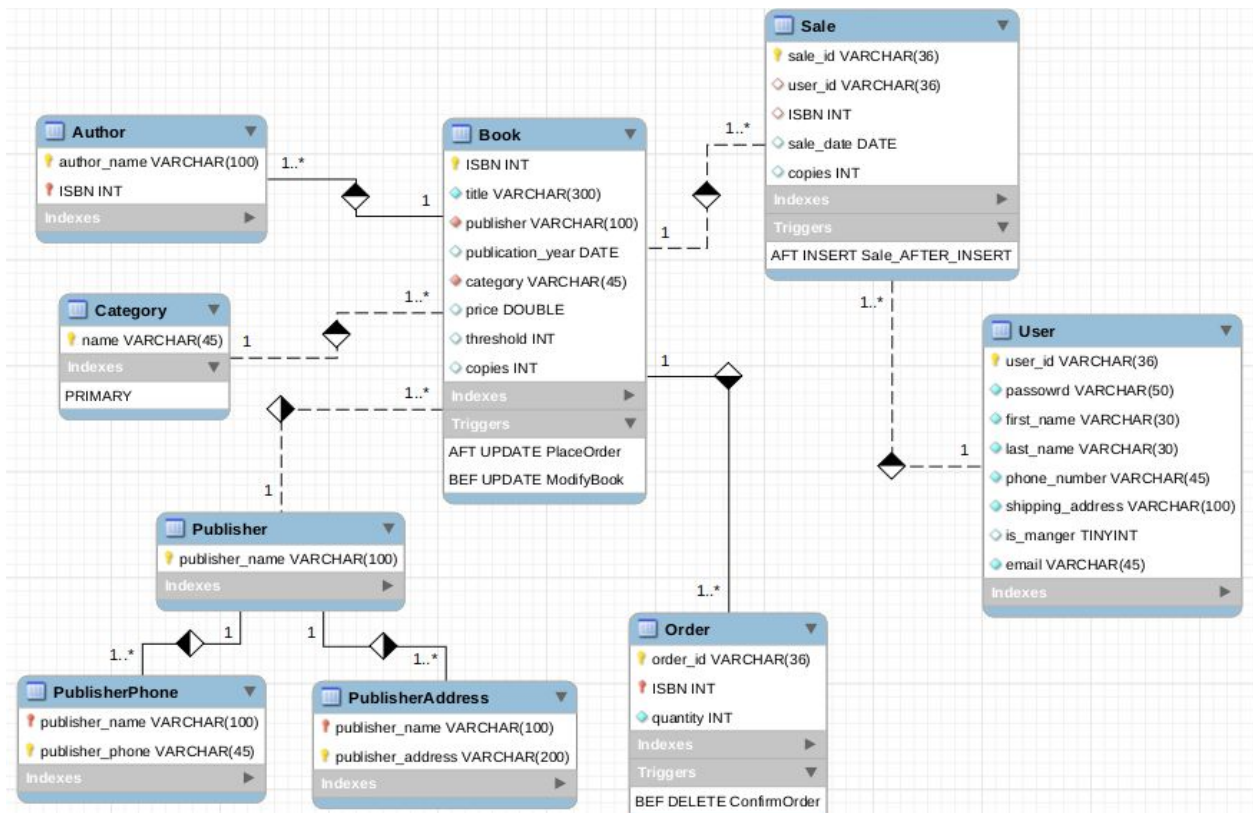
Reading books is the favourite pastime of many people. If you're bitten by the book-bug too, then there is a massive collection of books for you to read. From bestsellers to new & future releases, the choices are exhaustive when you at Book Me's Largest Bookstore.

From books for dummies, to textbooks for students, there are a wide variety of books. You can explore the young adults books store if you're looking to gift a nice book to a teenager, where you can find books from the best-selling series.

Innumerable books are divided under various categories like Science, History & Art, Geography and Religion Books.

DESIGN

1) ERD



2) Triggers

- **Modify Book**

- it is done before updating the book copies which done when a copy or more of the book is sold.
- we check if the update will cause the quantity of a book in stock to be negative then we will reject that update.
- This trigger is responsible for ensuring there is enough books in the stock to be sold for an order.

- **Place Order**

- it is done after updating the book copies which is done when we want to place an order of that book.
- we check if the update will cause the quantity of a book in stock to be less than the threshold then we will make an order to the manager with the rest quantity we need which equals (threshold - new_copies).
- This trigger is responsible for ensuring there is enough books in the stock at minimum equals to the threshold.

- **Confirm Order**

- it is done before deletion of the order which is done when we want to confirm the order of that book.
- There is no checks to confirm the order but it is the user decision.
- This trigger is responsible for updating the book quantity in the store when confirming the order to be (old quantity + order quantity) .

- **Make Sale**

- It is done before insertion of the Sale which is done when the user buy some books from the book store.
- We update the number of copies of that book by subtracting the number of copies bought from the number of copies of that book in the book store.
- This trigger is used to ensure that the books in the store are consistent with sales made by any user.

3) Indices

- **Book Relation**
 - **Title** : Index to support quick search for the books of same title.
 - **Category** : Index to support quick search for the books of same category by Clustering them.
 - **Publisher** : Index to support quick search for the books of same category.
- **Order**
 - **ISBN** : Index to support quick search for all the orders of the same book.
- **Sale**
 - **User Id** : Index to support quick search for all the orders confirmed and successfully done by the same user to be used in determining the top 5 customers who purchase the most purchase amount in descending order for the last three months of the same book.
 - **ISBN** : Index to support quick search for all the orders confirmed and successfully done for the same book to be used in determining the total sales for books in the previous month and the top 10 selling books for the last three months.

4) Extra Notes

- We use hashing for the passwords to keep it encrypted.
- We use offset for the large data retrieved as a result when we search for books so we make these results in different pages and access them by next and back buttons.

Screenshots

1) Home Page

Book Me

Login Register

Book Me

Search for ...

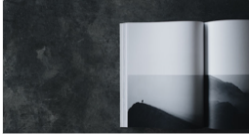
Art

Geography

History

Religion

Science




A Brief History Of Time
29.0\$

- Category: Science
- Book Authors:
 - Yakout

1

Add to Cart




A Short History of Nearly Everything
39.0\$

- Category: Science
- Book Authors:
 - Ahmed

1

Add to Cart



English Dictionary
20.0\$

- Category: Art
- Book Authors:
 - Ali
 - Essam

1

Add to Cart

2) Sign up

Book Me

Login

Sign Up

Email

Email

Password

Password

First Name

First name

Last Name

Last name

Phone Number

(+20) 112 345 6789

Shipping Address

10 Mohammed Salah St.

Register

3) Log in

[Book Me](#)[Register](#)

Log in

Email

Password

4) Profile

[Book Me](#)[Home](#) [Ahmed Yakout](#) [Logout](#)

Profile

Email

Old Password

New Password

First Name

Last Name

Phone Number

Shipping Address

5) Admin Home

Book Me

[Home](#)
[Ahmed Yakout](#)
[Statistics](#)
[Logout](#)
[Shopping Cart](#)

Book Me

[Promote User](#)
[+ Add New Book](#)

Search for ...


Art

Geography

History

Religion


Science



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Book Me

[Home](#)
[Ahmed Yakout](#)
[Statistics](#)
[Logout](#)
[Shopping Cart](#)

Religion

Science

A Brief History Of Time

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6) Customer Home

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Book Me

Search for ...


Art

Geography

History

Religion

Science




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Add to Cart

7) Add New Book

Book Me

[Home](#)
[Ahmed Yakout](#)
[Logout](#)

Add New Book

ISBN

Book ISBN

Title

Book Title

Price

Book Price

Publisher

Book Publisher

Publication Year

Publication Year

Threshold

Book Threshold

Copies Available

Book Me

Home Ahmed Yakout Logout

Copies Available

Book Copies Available

Category

Book Category

Add Author

Author Name

Author 1

Author Name

Author Name

Author Name

Author 3

Author Name

8) Edit Book

Book Me

Home Ahmed Yakout Logout

Book Edit

ISBN

0

Title

A Brief History Of Time

Price

29.0

Publisher

Bantam Books

Publication Year

1999

Threshold

5

Category

9) Search for book with paging

Search for ...

Title

Book title

ISBN

Book ISBN

Author

Author1, Author2, Author3

Category

Book Category

Publisher

Book Publisher

Publication Year

Publication Year

Search

A Brief History Of Time
29.0\$

- Category: Science
- Book Authors:
 - Yakout

1

Add to Cart

A Short History of Nearly Everything
39.0\$

- Category: Science
- Book Authors:
 - Ahmed

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English Dictionary
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 - Essam

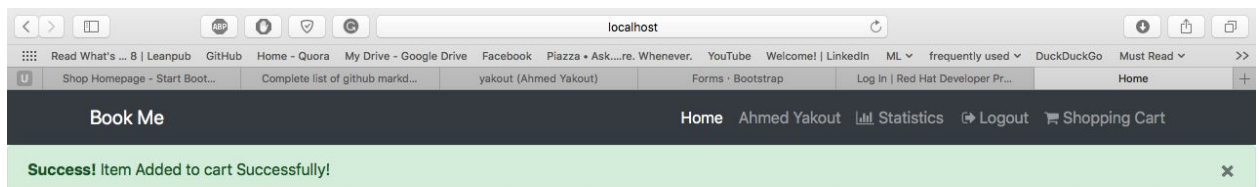
1

Add to Cart

< Previous

Next >

10) Adding to Cart



Book Me

Search for ...

Art

Geography

History

Religion

Science

A Brief History Of Time
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 - Ahmed

English Dictionary
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- Category: Art
- Book Authors:
 - Ali
 - Essam

Promote User

+ Add New Book

13) Promote User to Manager

Book Me

Home Ahmed Yakout Logout

Promote User

User Email

email

Promote

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14) Statistics

Book Me

Home Ahmed Yakout Logout

Statistics

Total sales for books in the previous month

Show

Top 5 customers who purchase the most purchase amount in descending order for the last three months

Show

Top 10 selling books for the last three months

Show

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15) Top 5 customers

Top 5 Customer		
First Name	Last Name	number of books Bought
first name 0	last name 0	9
first name 0	last name 0	6
first name 0	last name 0	6
first name 0	last name 0	6
first name 0	last name 0	3

16) Top 10 books

Top 10 Books	
ISBN	Number of books Sold
0	9
1	9
2	9
3	9
4	9
5	6

17) Total Sales

Total Profit Last Month
1385.91

Total Profit Last Month